

M. Osler Imi Coll Toronto

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SIR WILLIAM OSLER, BART.
OXFORD

Latur Prose Composition

(1) Frakeis Moneposition. It is said by the ancient poets that there are in the ocean certain islands to which the rouls who have led a holy and religious life are borne after their death that there they dwell most delight fully and pleasently in a most brankful meadon which is enamelled with perpetual flowers, that the sim is Ever bright in that happy ngrow, the true green, the flowers and hirts in bloom, That there all nature smiles and the goullist By pless perpetually brathe by whose faming the haves of the trees are softy shired and delight the car with the soflect murmurs Deny Good indeed my boy - 12a

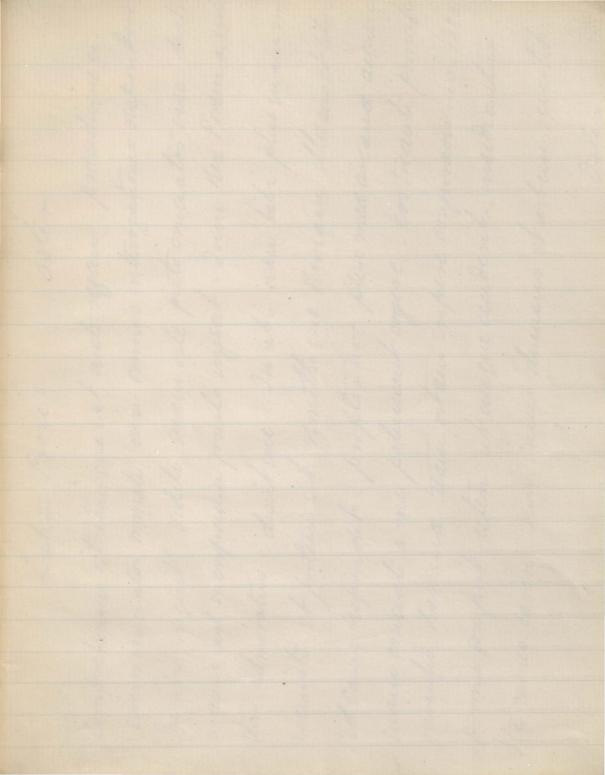
I vadition Est a vetenbres poetes esse quasdam in oceano menlas, a quas post mortere deferanting Dommamini qui sancte religioseque viciernt. It los viter de judicidisemac mavissime vivere, in amerissimo quodam prato, quod perpetuis floribus distinction sit, huquan non ellie mitere calun, frondere arbores, probescere herbas, ordere omnia, spirare assidue, mollissurios favorios guorum flabellis arborems coma linter velitate place edissimo mumure auribus blandiautur & Ooler

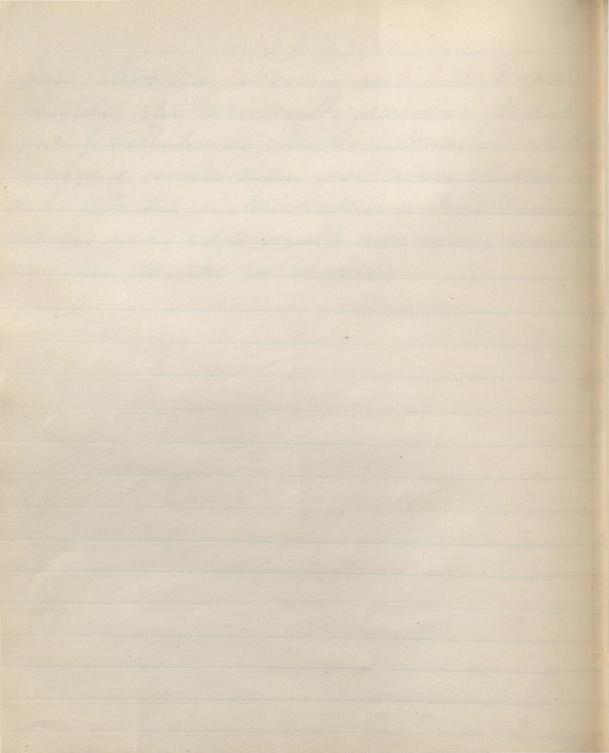
I have neewed your three letters, but in the last there uen some parts so carriersly written that his as plan you were thinking of something the when you wrote it I'mll show you thouse faults when I come to your party the world and pullyour car that you may be for the future more attention when you write and avoid at least such blunders , as even lettle boys would avoid who are harning their accedence Donothor everte distressed by this admonition of more for I do not wish to take away ampthing by it from your charfulness but to something to your altention adeni Toronto 38th Ochober

accepi komas tras literas, in poolocius aulius suedan orant ita negligenler sempta, ut facile constaret, alud Egsse F, gum Pla Sonberes . I Slendam Ea hbi, June stice vinero Naunculam proellam tibi; ut postea in scribendo allentror ors, at salter sos sologunos Efrigias, Euros effigerent Etrain plurali, qui pomis literes imbuillier. noli tamen ra hac mea admonitione molestain allam capere . non Draw volo guidguam de tua hilantale detratiged ad diligritam addi, Vale april Dorontonsuses Sembeban a-d. It Kulhor

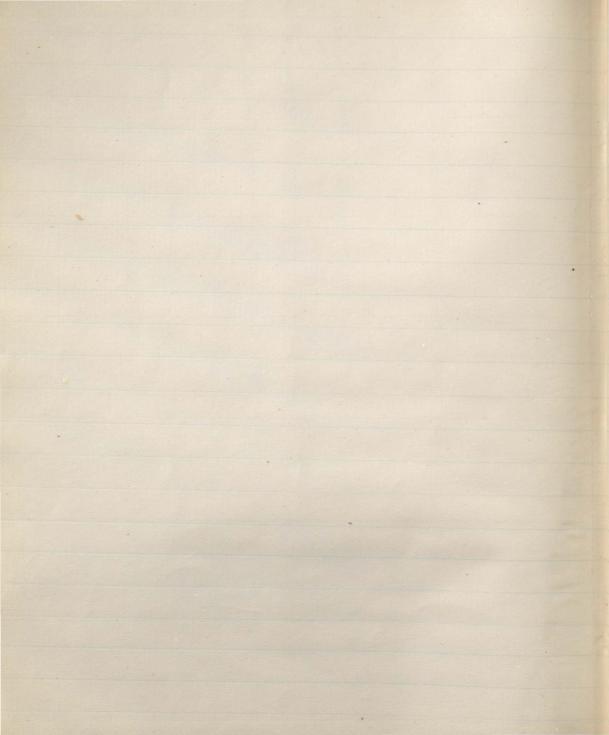
Your letter gave me much pleasure as Everything does hat proceeds from you although you had comm ited many faults in it (multa peccase) but as hope children are intered to with delight by fathers and Even their very mustakes an a pleasure to them Balbu ceules) so this your enfancy of letter writing is a ple some to me Isand you I back directed by my own hair for so you know we agreed

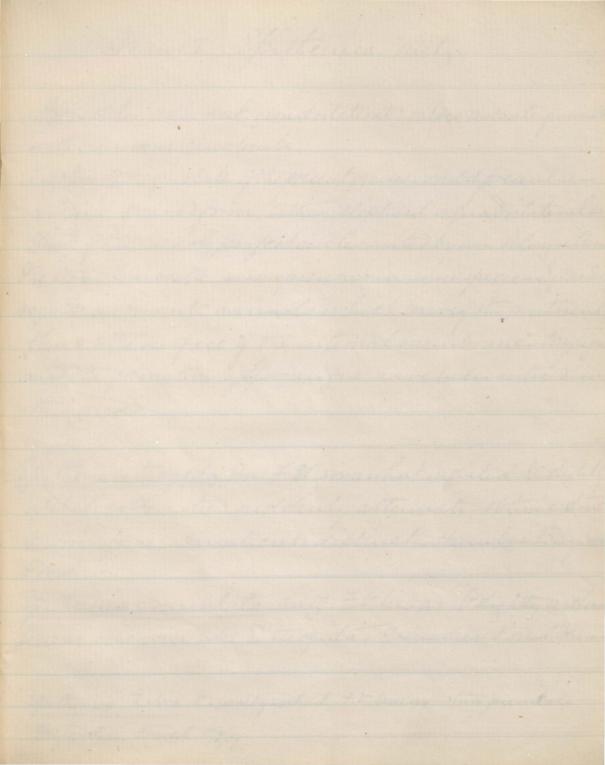
(3) Julces aterce tua at omnia qua a te proposesauter, Ette in Eis multa peccaveras Sedut purhili balbuhentes libenter andunter a patribu Sunt gra somme shaw upsi soveres voluptati, sic mihi sta tua in literis infancia ducundissuu Est Sas ipsas ad te remitto me a manu mendalas Dis min tes outer nos convenesse

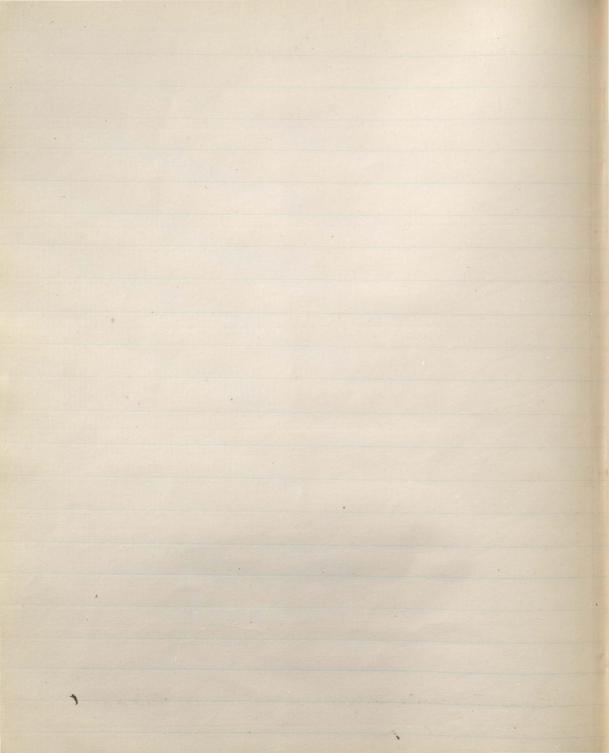




Latin Prose Osler Comprehensus ntrascussive est aute regen. præsidique en severos enecatos minati mos omnes interogationes risponderet "In her inguit" videto main vile puto conceatos esse, deatra acceuso ad sacrificium poculo inject. Inn Mesi Porsena virtu tem admiratus, discit que . In abi nan bibi plus quam mus nouisti et fortem est, umitto ene Koman illæsus et liber Sed Cames respondit, propler hor plus med areand acquires mani emuate a me poliussent cogere. Nos trecenti principis sweulis homana tuam vitam enpere conjuravimus. Ma prima son frut ceten. ut augue ceadent, insidrautur Ha moneo, cavere. Jum Carus diresus et urbern revertit







Genus I Epithemia, Kietz

Instales adherent, quadrilateral; valves arenate fumes with transcerse canaliculi

a section of the puelule of the present genus would present and on thine graned form, so ther scliptical or quadrilateral or that flow nearly perfect circles united by an obloquether The transversecosta, so conspicuous in some species I formed regard as minute cannals which convey the metnest fluid to the surface of the internal membrane. Conjugar

this genus

Epittemia turgida Sm. 7. W. somewhat inglated . V. slightly arched, extremities and dealy attenuate, obtuse; And ononilliform. canaliculi distinct, Humber Bay graph Pond,

Epithennia granulata Kut, 7. V. livear . V slighty archer linear otherwise like E turgida. Grenadur Pond Minu

Epithemia Zebra V & qually arched 7.V huear stra punctate Disjardin Canal 13/7/09 Epithemia gibba F.V. linear shelly inflated abcentre and extremities S.V. linear, obtuse . Egn. Nav. gibba . Ep. gibba Eunst sulla Grenad Pond . Despardin Canal

Epithemica ventricosa. 7.1. Elliptical Slightly constructed at the ends . V. with acute vetremetics.

Despurdin Carral 18/7/69

Opithemia argus. 7. resembling S. Isbra, foramma conspections on 7.V. Britington Bay

Spethimia ocellata. 7.6. inflated extremities of valvex rounded foramina large Grenadier Pond

Isthomia sorex 7.6 inflated b. alternate shoully recurred at the extractions dorsal line highly arrivate canalicule ju granadier Pond

Epithenia probosciden 7.0. inflated b. recurred at extraudes emaliculi large framma meonspranons. Sandy Cove

Ismis II Lucota, Thr.

Fristiles free, oblong; valves arenate, with terminal nothing and enveryent stra

Closely allied to former genus butrasily distinguished by absence of canaliculi the delicacy of the strid and the dorsal ridges with which most of the speaces are provided. The 7. Vis also uniformly linear and the connecting men brane less fully developed than in Spethenna

lunote a arcus . V. regularly arcuate, acute with a slight constriction at each extremity, and inflation in the centre of the concave margin stres delicate In have arens apubella avens

Humber Bay

Sunstia letradon bruth four donal neges Desparation Canal

Genus 3. Cymbella, ag. onetitles free, cymbiform valves strated with a submide hue and central and temmal modules Many pustales oflocconemata detached pointhersty bear so close a resemblance to those of the Cymbella then a discommutation can hardly be reliedupon which dife upon the observation apprepared opecuneus, Cymber prequently form a more or less distinct stratain the pustules being relained in their position by a dettea pellicle opmicus Cymbella Etircubergii, Kutz. V. Elliptical-lancevolate, Extremities slightly protondedeed, obtuse stra distinct gread fond asculation noticed in this 26/9/19 Cymbella maculata, Larger segment of V. convex, smalle with dight inflation in centre extremities obluse magarafalls Cymbella Scolica. I harron clongated. 8 maller segmen

Straight extraenties acute Srenadur Pond & rare Bures & Combetta ag. Soundry Print & rane Ismus 4, amphora, ohr.

Instites free or adherent; valves cymbiform, with a centr.

The valves of this gonesas are raceedingly convex closely recembling those fletherma subset is and the section of the pustule is the same, they are it friet a Therend and afterward free

auphora ovalis Kutz. 7.V. Elliptical, internal margin of valve inflated at the nodule strice moniliform
Sandy Cover Lake Sincoe

amphora minutessima. F. I Elipheal or oval. I mustled with a transverse band SunkuBout Brout of them (ran

with a transverse him derbook with the with the with the with

9 mus 5 Cocconeis Chr

Instales adherent; discison, valves elliptical, plane, with a median line and central module but this genus the frustales are closely adherent by the surface of one valve to larger algo and are hard to get off. The markings of the lower are less intense than those of the upper surface

Coccons is Ihwaitesii. Son. 7, arched valve constricted toward the offuse extremities, median hive sigmoi disc faintly striated [Cymbella flexella Kulz] / achnauthion flexellum, Breb). Fremadier Pond, Humber Bay

Cocconcis pediculus. Farched. V. Elliptical somewhat augus disc delicated strated. Humber over on Cladaphora. Isyardin Couad on Zz gnuma

Genus 6. Coscurodiscus, Ehr Fristales free or adherent, disciform, valves plane or slightly convex with a cellular structure Though this grows is closely related to those which immediately follow it, Aprilo to nearestables in the meloserce, whose genera from their fillamentous character standwidely apart in the present work Grows 7. Eupodiscus Ehr. (all marine)

Perus 8, activocyclus Ohr, [marine]

9 Emis 9. arachnordscus. Bail (marine)

Genus 10 Inceration The Bustules pree or attached, triangular, valves cellula angles Elevated or produced The Inaugular form of the pustules seperales this gener from its allies, The pustules are probably fire tattache to the larger algee Orthosira Spinosa. sideniu. V. S. Smitidii tille? Whaton from he had in the little of the

9 snus 11 Cyclotella Kutz Instales free or adherent, discison valves convex or plane straled stree rayed Closely allied to the Commodiscus and Melosera. the absence of cellular of nicture seperating it from thefist. the shallow valve and non adherent frustule from lyclotella Kutzingiana. V. undulating (not au come) strie deheate extending over half the dise. London. University Fond I oronto. Burlingboulday. London in mynads in River Egelstella?.... a Draton found in Burlington Kay attache to ome waterweed, looked very much like Cholula but The value was depressed white intotala it is place . Aria making + numerous. and the margin som spinons and it tooked like Coscuro discus Eccentneus lyctotella operaulata. I depressed in centre stra obscure ony short - Barburgon Bay Humber Bay Cyclololla volula. Desjardu Canal

Fruit 12. Campylodiscus Frustules free saddle shaped, values Equidistant canalwell radiated The species included under this grows may all be recognized by the characteristic bend or contortion of their surface Campylodiscus spiralis. F. Ivisted svasto present a spiral outher. V. Elliptical canaliculi about 60 nearly parallel ceutre of disc immulely punctate Sunken Boat Month Humber, full of hid ochrome and forming ofsvangra Bogley The sold of the so

Grues 13 Surivella. Lurp Instiles free, ovale or Ellipheal, valves with longitudinal central line, and margins produced into ala ; canalwell distinct usually parallel the only genus with which the present stands in neuralliance is & Inthionella from which I is well distinguished to by the prominency of its ale, the distinctness of to cand ! culi and the usual currente form of the pustules The surface of the valor in the Finrella is marked with transverse lines, but They are generally very faint Survella spleudeda, Ruty F. V. ovale, V. ovale, Elongaled ala district; canaliculi conspicuous reaching the on fine spummer of this from hagara falls marning was distinctly beened "14/9 400 Surrella nobelis. V. huear ovate canaliculi conspicuous not reaching to the central line Sandy Cove L'Inneve Sunrella punata V. lineanovate "ala obsolete, canalizuti large ubdurbant, morginal, majara falls

Surrella Craticula V. Lanceolate ala distinct, can alieuli few, small divergent, reaching the median line Bushington Bay. Sand, Cove

Survilla constricta I blucar oblong belliptical.
acute usually with a ceutral constriction, alce conspicuou
caualiculi delicate reaching to central margin
which often inplated

This species is smaller than the one figured by Smith tumber Buy Sun Pond 2/4/by

Sunvilla minuta. I orate-elliptical, ala inconspeccions. canalisate marginal, University Pond numerous, small stream West. M.a.s.

Survilla bisernata It. huear, oldong: to elliptical - lauceolate ala conspicuous can aliculi large, usually reaching the central line . HumberBay

Tenus 14 Syblionella W.S. Instales free, Elliptical or linear valves plane ale submargnal or obsolete, canaliculi incompinos, parale This genus differs from Campylodiscus in the more clongated form get prestules and with absence of the characterist bend of to valves, the canaliculiare also more munte and parallel rather than radiating It agrees with the Sunsella in the presence fale but these anse from the disc and not as in the Lurrella prolongaling of the margin rand the presetules never assume the ameate form so notable in the Turivella Try blionella augusta . V. linear, a cuimale. canaliculi obseure stræ delicate and continuous. Magara falls 18/8/19 Internella Scutelline i skiptical marked with a central depressed time canalisati obsolete ala short Butugton tray . a windla

Genus 15 Cymatofeleura, W.S.

Instales free, oblong or Elliptical, valves undulating

The undulations of the surface of the valves seperate the present genus from both the last, the absence fala and canaliculi are further distinctions

Cymatopleura Solea Ms. F.V. storong, linear, b. fiddle spaped symmetrically divided by a central sinus on Each side margin, wiidelations six surface go. obnited Ion. Atumber comme

Cymalopleura elliptica & broadly elliptical somewhat accumulate with four or free undulations surface obscurely shaled. (Surrella elliptica) Sandylove I Sincoe

Cymatopleura apicula It fiddle chaped, apiculated.
unidulations about four
In munter with & Solea probably same openis only muchimatter

James 16 hitzschia, Hars Instales free clongated compressed, valves hivear, Reeled with one or more longitudinal hues offuncta, Keel frequent This genus embraces a large murber of species differing in form and size but all agreeing in afew general characters The most important of these is the Reeled from of the valves and the remarkable neguality in many of the species, between the portions of the valve lying on Either ride of this promuency. This inequality or in their word recentrally of the Reel distur suished Inteschia from amphiprora in which thekeel is also present but The true character of the valve may be detected by a careful examination The desiccolid Section I frustiles sigmoid Intzschia sigmordea, W.S. 7 linear sigmord Immealed & linear unddenly takenny towards the acute Extremities, Kell with a single line of princta Jandy Cove. L. Suncoe

Into chia tenuis Folinear, occasionly slighty ugmon whentes trunckle, or narrow lancevate, acuto, stree obscure Irllia wharf hotzeileen aciedaren tet fagivedate expounter of alle stranget of yandly strint desser is statemen 25. The species hereint with the sense with single Sichon IV Intzelia ampliaxys 7. V linear, quadrayular Velliplical, arcuale, with acute and somewhat promnent atraintes bushington Bay teland onds Mys chia monutessoma bloncar; puncha disturct bruadies pondo monomillo

Whathan lums tolunar recountry shiftight vinentes muchles to name lancestate, acute, sona miller wharf Mityschia acicularis 7.6 lanceolate extremities produced bials straight 7, family striated Mayara falls. neur Clifton House Proteschia birostrala 7 b. slongated straight in central postion somewhat lancestate Extremeles produced auto extremely long bealls Keel nearfetatral, puncha in single mo strice ofsture Stuken Kout mouth of thumber 3/9/09 is a cheen mountained the the chief a chaline who promound vacuation fremelos dina la on

Terus 17 amphiprora, Ehr Anslules free, Elliptical, constricted valves convex, Kieled Keel central with a longitudual line and nodules at centre and Extranches The very peculiar probles of the genus cannot be confounded with any others, save with those of the fifth section of Mitschia and from these they are usually distinguished without much difficulty, owing to their deeper constriction the central position of Mekeel amphyprora . I horsted . 76 elleptical with round or truspedate extremeters, construction not very due I Strated. The species here discribed differs prolum Paladora wheny narrower, less constricted & in having the The continued tothe Keel but not sharting from the margons. Somadier Pond. very rare

Genus 18 aniphipleura Austules free, linear, b. with longaludual ridges The structure of this genusio very obscure Amphipleura pellucida Fruslules linera-laucule Prinadrer Pris a gulliamade 45/9/19 not common a level of the second of the s ment or treated to in mention conclustion where her Houte E. The speace here divented affers prolin helder wherey narrower, descent trited & in having the The continued tothe teel but not stown and prose tomangene some streather the it is now

Jenus 19. Maricula Bory,

frustules free oblong or lauceolate; valoes convex with a median longitudual line nodules atcentre and extremity straled stone resolvable into circulardots

In the present work the genus haveula flutzing is divided into three viz Marroula. Punulana, and Pleurasigma Stanoneis has already been placed apart

The fourgenera are I think sufficiently distriguished from Each other; havicula by the delicacy petistina another monitoform character, Puncularia by the confluent nature of the cellular structure of to spiderm which gives to its obria the appearance of district ribs Stauroneis by the absence of a central nodule which is supplied by a band of silex crossing the valve at right angles to the median line; and Pleurosigma by the characteristic curve of its beautiful

Section I balves lauceolate

havreula cuspidata, V. acute; Anaparallel distinct Sandy cove LSuncoe havicula lauceolata. Vianceolate velliptical-lauceolate Anæ Barallel Grenadier Pond Humbay Parreula thomboides. Vo mart quadrungular stro produced Ana Ascure. Humber River havioula Fixer I. H. oblong V. Aliptical arther preded Atremations street delicate formation for them Bay havicula Aliptica Welliptical stree distinct, intempled toward the contrat line

havreula ovalis. I Elliptical, occusionally inflated Thames London Section III Valveselliptical extremities acuté

Marcula affinis. V elliptical; contracted, vlineur towards the rounder extremates Sandy love, Frenadier Pond common Section V Valves with extraulter froduced havicula acciphisynchus. Uniear abruptly contracted towards the produced extremities stree facil Marcula producta Villiptical gradually concracted bouards the produced extremities Sandy cove L. Smicoe

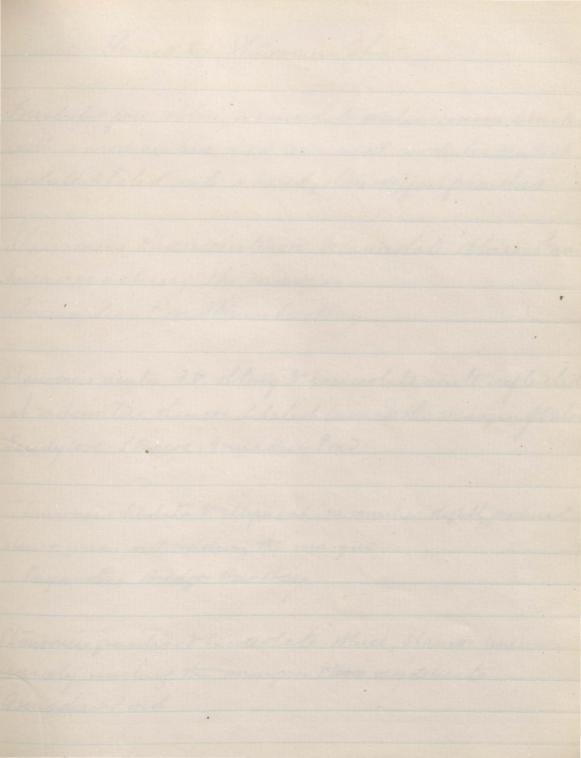
havreula ambigua bellijoheal gradually contracted towards the obluse Extrusties which are produced strue distunt Grinadrer Pond Marcula timida. Northern railway when Marcula amphirbana, Magura Falls Navicula Spærophora Clifton. The Zalls Section VI balves with central contriction havrula binodis V. constricted uncentre, extremities slightly produced, obria obscure Kempenfell Bay common

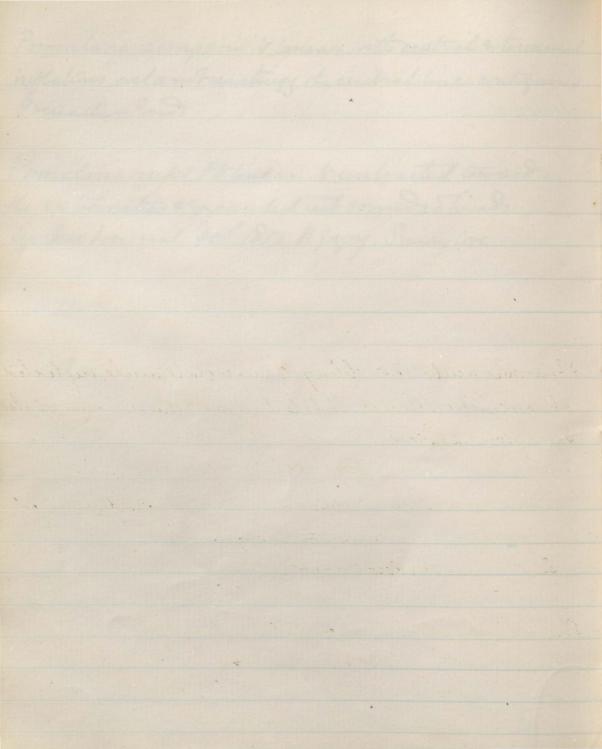
Genus 20 Pinnularia Chr Instales free, oblong or lanceslate, valves convex with median line, and nodules at centre and ox trunties abbed or pumaled with distinct costa not resolvable into Pinnularia major I linear office with a central and terminal inflation, costce radiate not reaching the median line contiguous Saidy cove & Simcol Immelana gibba b. hinear with central and temmed inflations, costa not reaching the central line contiguos (havicula acrosphana) Ruly Grenadier Ponothum Bay Pinnularia stourourformis Velliptical, costà abreut pour centre gralve not reachisthe central line, contiquous Aunber Buy Pomulaña nobilis b. linear, obluse, with ceutral and temmed influen tumber Buy. Irudus Cural

Primilaria acuta l'aucestate, acute, costa radiate reaching the central line Sandan Farm Undon 25/4/07 Immulaira accumenta. V hnear inddenly accumen ate toward the extremetics costa parallel not reaching the central line London Sandars Farm 20/4/09 Imulana merolepta & linear with three cental inflations, deeply constructed lowards the obluse extremites, coster reaching the central line Immulana omdis Vellypheal, allemated, costee as m'P. may or benj common Magara falls, Humber Ponds mularia oblonga, Vlancolate x benuties sounded evota radiate reaching entral line disturct Humber Buy, Dundas, Ponds extream Immularia gebbs & meur with central and terminal inflations este not reaching eentral line don River.

Immulana acrosperia. I timear with central & terminal nylations costa notreacting the central line contiguous grenader Ponds Imulanabreeps, Folivear, boutracted toward the Extremties & Expanded into somo so heads Lee Mue Sournal Gel. 1855. M. Gregoz. Sandy Cove mentana merepa, ti puen nett hire una

moulana mora religiolent allemented





Genus 21 Stauroneis Thr

Frustules free, oblong or lancestate malves convex strated with a median line and leminual modules, central widnes delated into a band (stauros) free from strae

Stauroneis Phanceuteron I lanceolate, obluse Aumo biear reaching the margin Grenadier Pond Humber Bay

Stauronies acuta 7. V. oblong V. Lauceolate, acute, inflected at Extremities, slauros delated lowards the margin Italie Sandy core . 2 smcoc, 9 ruadur Pond

Jauroneis delatata V Ellipheal extrauches stightly produced slauros linear not reaching the margin Desparative Bridge Bunksey

Stauroneis gravilis. I lanceolate, Aluxe, Slauros linear carcely reaching the margin store very delicate
Grunadier Pond

Blaurmers punctata, V. Elliptical, Extremeties porrduced Stauros hueur central strice radiate punchate green dier Pond Nauvoneis anseps Villiptical constructed lowards the produced extremeties stanos hueur not meading the central margin stree very delicate Grenadies Pond Island Ponts Stauroneis unearis v elliptical inflated at centro and Extremities, which are assiculated, slauros linear, reaching

thomason strea obseure

Genus 22 Pleurosigma. W.S.

Institutes free Elongated valves convex sigmoid, with a central longitudinal line and nodules at centre and extremities, strated, strace resolvable into dots who are frequently hexagonal

The sigmoid from of the valve

nore or less present in all our native species, at once destrugueshed this genus from its allies. The Atna are on closely arranged , Their true character has been in consequence frequently mistablew, some observers hairy considered these appearances of this to anse from serve speciforations and others from rows of beads or ming oberations, but the latter I have been disposed to consider but latterly I have been bed to conclude that the times are

but talkery I have been bed to conclude that the times are, from internal structure author the appearance of tothe perforations and olevations may be produced in the same object by a slight attendance of freues bothing is known Me Reportentian, properly wealled

alone by self division being the only mode generouse hitherto detected

Pleurosigma attenuature, V. lancestate, obtuse flexure moderate, colour purplesh brown long, Pandy cove L. Simeoe. Humber Bay Ponds Pleasosigma Lacustre. I lancedate, stare acute flexure considerable colour pale brown Grenadier Pond Humber Bay 13/4/69

is a force thate are afford wire inable allached the The valors are usually promised with rection I Budes undule descripte

Genus 23 Synedra, Ehr Frishele attached clorigate, rectaingular, valves linear or lanceolate, plane or convex In the foresent geners the pusheles though often formed mapree state are approximately attached to the larger alga by a cushron like pedicel which in afew cases becomes developed into a more or less distinct stipes, The valves are usually from shed with a sentral prends nodule and median line, the extremeter Juhich are usual shightly dilated Section I Pacado nodule obsolete or very munite fins lule arruate Synedra limans, narrow, huear, slightly attenuals obtuse, Exclaria humans Hass. HumBay

Section It Pseudo-nodule definate anular Symbra minitisema. I linear-lancedate extrambés Rever Shawes London 26/9/49 indra proudulata phreum Laucestate street soon to value probable in reclainfulantable Section III Pseudo-nodute indefinite Synedra radiaus. F. linear laucolate, Extremetes somewhat delated, obtuse; pusheles arranged in a radiate manner Synedra oplendens. Exclana ulua tass Butley's water trough, common Inedra capitala, Vhuear, delated loward the acute Sandy Cove & Suncoe

A the the stand of the tet prevente structure Synedra ulua V laucolate-acute, frustules not radiating magarafalls common. Syntora longissica. Exlingated very narrow audgradually tapennes shally and gradually allumated towards the inflated and others extremities . Sunken Boat Month of Humber (Section IV Pseudo-nodule obsolete puelle itrage) Synedra fascilulata bluear-lanceolate stra reaching

across the value prestules in reclaigular tablets Hover I hauses London.

Finns 24 Cocconema, Ohr

the presence of a statoes. Whether the development of this accessory be esteemed a generic difference or not; it cannot be denied that it gives a notable physiog money to the placet that it gives a notable physiog money to the placet, and affords as ready means of discremination, The stipes such to be aux undelion from the pustable secreted only during the propress of self division

Cocconema lanceolation 70. Lanceolate, bluse V. clongated slightly inflated at the centre of the concave margin strice monely one

Sandy cove L. Sincoe

become a paroun 7 ment direct. 7. b. stlong. be scarcely inflated on concave margin stro montym. Anuber Buy

Coccomanna cistula 76 nearly linear; obtuse; o much bent, distuelly inflated on the concare margin, obluse stra montiform Konr Thances London 26/9/09 And the first of t Cocomers bound & comed wines - I cerplant.

Genus 25 Doryphora Rulz mustules stipitate lanceolate or elliptical valve with a median line nodules obsolete Distinguished from the last by the median line dividing the valve into two symetrical halves and by the absence of distinct nodules

Imus 26 Gomphonema . Rg. Frusheles stipitate, cureate, valves variable in outtine straled, with a median line and nodules at centre of stra The currente form of its pristules answig from the unequal development of the connecting membrane distinguishes Tomphonema from the genera which have preceded it and the presence Involutes in itsvalves from Podosphana and Ripidophora The latter genera are also excluse wel mann white the species of somphoneus are all inhabiters of preshhater streams Tomphonema gemmatium F.V. shightly cureate, triucate b. inflated at the centre and constricted loward Each Extr. amily of which the one more distant from the slikes is Enlarged and rounded, stre monteform Irenadier Pond. Humber Bay Tomphonema olivaceum. Fresheles and slipes forming mucous masses 7. V. destruelly cureate to slightly attenuate upper extremity rounded, lower acute Magaratalls.

Tompheurma constatuen 7 v. obovate crested. V obovate aprentate lower extremity acute Sunken Boat Mouth oftumber Tompheuma euroutium, slipes clonfated filamentous and dichotomous. 7 b. curved, boularged lowards the upper extremity whis winded and inflected; alterialed lowers lower and this acute Humber River Westen

Completion on a recognition of the distribution and the stand

Inns 27 Podosphenia Ihr

Institles attached sessile cureate valves convex, obvoute, inflacted at the larger extremity, strated, traversed by a longitudical median line

Gemis 28. Rhipidophora, Ruly

Instales spipitale, cureate valves convex, obveale, inflected at larger extruity traversed by median line

Genus 29 Licmophora Institles converte, stepsitate, stipes incrassate, irregul-art branched valves convex, Elongated, inflicted at large extremity and traversed by a longitudual line dually allumated toward the Phase, which is. Contar Survey neton Builley's water truck Suns

Genus so Mendion

Anstules accepte, winted into a planent at postattached, at length pre and spiral, valves clonyale convex, primished with boursone costa storated

Meridin circulare. Frustules on front valve anneate trunctate. V. cuneate, rounded at the larger extremity gradually allumated towards the other, which is shightly inflated and obtase costa unequally distant frequently interrupted. Store obscure Cender In aug Neston Pombley's water trough dundus

Meridion constriction. I constricted towards the large extremity otherwise Wile M. areulare Island fonds

Jenus 31 Bacillaria Frisheles aneur straight unted intrafilament at just attached at length free coiled wounds valves dongate, Recled, with a longitudical line openinta Russcutte Homen or with dominer sugally about the color and linear or with dominer sugally domain to be town rembrace brunch stricted recording the second

Freshiles, timear, arcuate, united into a planent at first-attached at length free, obrect and slightly arche values clongate, linear, arcuate transversely stricted

Himaulidium arens 7.6 prequently arcuate, value arenate, linear or with dorsum slightly slevated constricted toward.

The rounded extremelies

Trenaduer Pond

Amaitidium sectionale Invalules on 7.6. rectaugular Straight: N. arcuatelinear inddenly allemate towards the extremities, which are slightly produced connecting membrane breusely strated Prenadier Pond.

Himautichium majus barcuate dorenn shvated satrunties inflated arounded Remperifelt-Bay

Source 33 . Basilteducie on Burn theretiding most state to de ment a saidle tres wine to mak alle lotte al or will an article and to me to me man Sandy For Lake Smeet common Pord Pulle & orden Horitalum Tabrillana Flancet parile to ralous Storteduna varrieoui Flament allached Que mistates which premently addressed their many sody value emodene auglis muded cate reaching the souther of alore distinct

Forms 33. Odontidium

Franklules quadraugular, direct; winted into a plane
at first allached, at leugth free, valves elleptical or
concepon, costate, coo to pervious or interrupted

Voral, elliptical or linear accumulate, costa marquial distinct

Sauchy core Lake Smire, common, Pond Mills, London

or laucedate, costa interrepted, delicate

Sandy Cors. L. Someoe

Odoutidum Harrisonii. Flament allached of few frustules which prequently adhere by their margines angles only, value emaform angles rounded coste not-reaching the centre gralve, distinct Sandy love. Is move

Montidium parasiticium Fristules rarely whering allached by their extremeties, values direct elliphed vacate Sandy cove 2. Someve common.

Odontidium auromalium Islament tenacions, in free

Odoute dinn anomalum Islament tenacions. valves linear constricted towards the rounded extruities, evite pervious. Anuber Ponds

34 Denticula Finsheles quadrangular or Elliptical direct rarely author in folaments, free, valves Elliptical direct; striated, with pervious or intermpted costa

Denticula tennis Anslules tinear, truncate Vlanceolate acute Sandy Cove . Anuber Ponds

Deutecula inflata Inslule timear or elliptical. b. oral with rounded or acute extranities. Humber Fonds

Fines 35 Fragilaria

Finestiles linear straight, winted into a plannent free
or altached direct; balves linear or elleptical direct: Fragelaria Capucina, valves linear, cineate at the sub- acute extremities Sanken Bout Month of Humber, Kempenfelt-Buy Fragilaria viresceus, t. linear or elliptical, suddenly alternated towards the produced extremetes which are obtuse grenadier Pond from Buy Fragelass a Stralula, Valve briear, somewhat attenuate loward the Muse extremelies

Jems 37. achnanthes Finsheles geniculate, imited into aplanent which is suprate or attached, valves strated, unsymetrical the lower with a longitudinal & transverse the ventral stemmal nodules the upper with longitudues here only achnauthes Exilis, Flaments from woo to Jefly pushules thuear-lanceolate with there extremities occasionly somewhat produced stra faint shipes vanable in leigth subgreganous or solitary Cedar Swamp. Ir Eston

Francis 38 actinauthidum Frastules geniculate rarely united into a filament free valves striated, unsymetrical

Jemis Al Detrayelus Felament compressed with a central inflation, free pusheles anundate indéfinité, anunli plans, s'épha nortate alternate, equal, valves inflated at centre, enciforn, Pencis 42 Dratoma

mistules obtong adhering by their opposite & allemate

more rarely by their adjacent angles into a zigzaog

chain valves elliptical or linear

Dratoma vulgare Valve elliptical suddenly allemate

towards the obtuse extremities, costate, eveta pervious

somewhat irregular

Humber, Dundas, canal sponds

Smert Galana beside them a drawing by the Haville & all water and or witersedward and har noting of grown Balona rulgare Value ellestical suddente alleinte was the the carriedter water earlier water persone Aumber Luciandinois

Tabellana Genor 44 Fredules oblong cohering in gregay chains anualate decetto & Extranilies strialed Sabellana feurstra, Frustules definite septativo from each margin, regual, inflations of the valve nearly Equal in with storic indistrict Tabellaria flocculosa mestules meliprite, sipta from 3 kfine from Each margin, slightly inequal, Valve with central inflation the largest; Since industrict Sandans Farm London

Imus 49 Melosira Flament-cylindrical of numerous pristules attaches or free pusheles sphene al orey lindical stengemente valves hemispheneal or subsextinducal, more or less convex at printion surfaces Melosera Vanaus ordinary prestules cylindreal sporaugual at frost globular, attemeth cylindrical valves cylindreal with truncated extructies Barrel on Hamilton roud below tott gate

Filament cylindrical, of munerous purcheles continon attasched or free pusheles and palves cylindrical, june-tion usually spinon or denticulate

Mhorira brichalcea Flaments direct valves
punctate, une of runction with more or less disturs
ubdistant distribulations, punction surfaces omorts
Sandy cover ake somere

Ithosira Somosa. Filaments curved, often zigzag from the partial whesion oftheir michin surfaces values trunchate marked with monteform strice and three conspicuous onbentral puneta, of orange pusheles globular

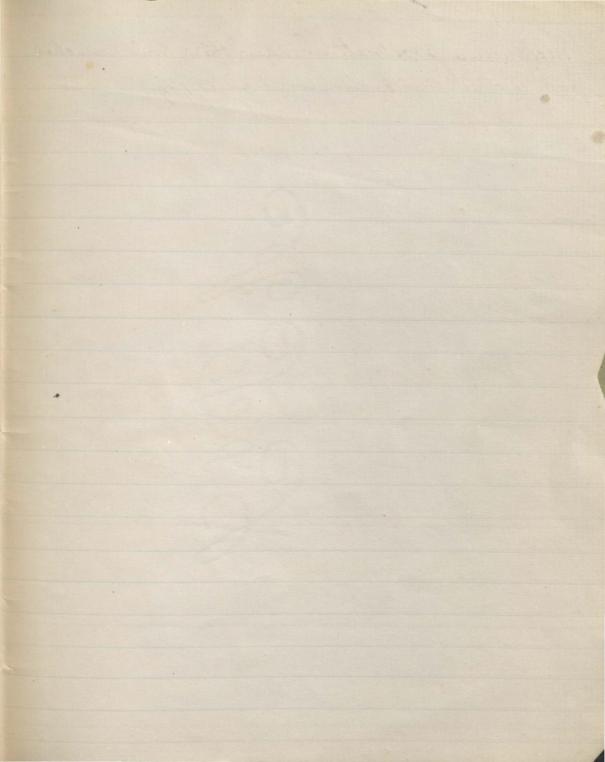
Frond planeutous, tubular spannifly divided, pustales cymbelleform valves convex obnated stra monmey newa prostration Frond nearly omple erect Bone or bother Extremtus produced Interiora Prova Edamento cumo of turingia and tree construction rate about princts spour

boolelonewa Gennes 5.5frond imple or divided pliform or globore, pursules
symond or direct, naveuloid, ples contamus one
or more mos of scattered puelules

Collelonewa vulgare Frond pliform, occasionally
divided, gradually accumulate, contamus one or two
mos of pushule is regular file. I elliptical-landolate
slightly contracted towards the Obuse extrincities
dudono. Pondo

Vollstonerna neglection. Flament shightly dunder oblise containing numerous and closely packed pustules. I ellipheal-tanceolate estrembés oblise transfer Bay

Hilmuna Some 55 divided gradually seminente resiliences tothe toners a reflection. Thinness Elected dender Lules I Alexhandranarlate 3 streamlito Alice



Ineyonewa prostration. I aw the a frond tranched from a serie grat Burlington Vous 18/7/09

